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Indian Standard

BULK HANDLING EQUIPMENT — BAGGING MACHINES (ELECTRONIC TYPE) — DATA SHEET

UDC 621·798·34 : 658·711·4 : 621·86

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

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Price Group 2

Bulk Handling Systems and Equipment Sectional Committee, HMD 7

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Bulk Handling Systems and Equipment Sectional Committee had been approved by the Heavy Mechanical Engineering Division Council.

This standard covers the data to be given while specifying an electronic type bagging machine. The requirements laid down in this standard are notwithstanding the requirements of any other Status, Regulations, Acts or Rules or any other General or State Governments Orders issued from time to time which are otherwise to be met.

Electronic type bagging machines are taking the place of mechanical type bagging machines where feasible. This Indian Standard attempts to provide uniform guidelines to the purchaser and the supplier for exchange of data for proper selection and design of the electronic type bagging machines.

The general requirements for design and construction of bagging machines of electronic type are covered by IS 13992 : 1994 'Bulk handling equipment — Bagging machines (Electronic type) — Design and construction — General requirements'. The general requirements for design and construction of mechanical type bagging machines are covered in IS 13989 : 1994 'Bulk handling equipment — Bagging machines (Mechanical type) — Design and construction — General requirements'.

Indian Standard

BULK HANDLING EQUIPMENT — BAGGING MACHINES (ELECTRONIC TYPE) — DATA SHEET

1 SCOPE

This Indian Standard covers the data sheet laying down the data required for the selection and design of bagging machines (electronic type).

2 GENERAL DATA

2.1 Equipment, Purchaser, Manufacturer

1) Equipment nomenclature :
2) Purchaser's equipment number/order number :
3) Quantity :
4) Manufacturer's Name :
5) Model number :
6) Service :
7) Duty :
8) Type : Full Load Cell
Lever Load Cell
Beam Load Cell
9) Area classification :

2.2 Site Conditions

1) Location of site :
2) Relative humidity :
3) Ambient temperature :
Maximum temperature :
Minimum temperature :
Average temperature :
4) Installation : — Indoor
— Outdoor
5) Altitute :
6) Available power supply : — Voltage
— Phase
— Frequency
7) Surroundings : Dusty/Cyclonic/Corrosive/Abrasive
8) Compressed air quality : — Pressure
— Temperature
— Dew point

2.3 Material Handled Data

1) Material :
2) Average size, mm :
3) Maximum lump size, mm :
4) Percentage of large pieces :
5) Bulk density, kg/m^3 :

6) Angle of repose :
7) Moisture, percentage :
8) Corrosiveness :
9) Abrasiveness :
10) Flowability :
11) Chemical activity :

2.4 Bag Handled Data

a) Bag material :
b) Bag size :
c) Bag type : Open mouthed/Valve type

3 TECHNICAL SPECIFICATION DATA

1) Weighment per fill : 10 kg/25 kg/50 kg/75 kg/100 kg
2) Capacity (tip/hour) :
3) Accuracy :
Per weighment :
For any consequetive 20 bags :
4) Type of feeding : Gravity/Others
5) Equipment housing : Open/Enclosed
6) Type of control : Microprocessor, Analogue, Self optimising
7) Data logger and printer with control unit : Required/Not required
8) Control location : Local for operation and remote central for control panel/At different points
9) Discharge : Automatic/Controlled by the bag holder
10) Filled bag release : Automatic
11) Flapper actuation : Electroneumatic
12) Bag holder : Pneumatically operated Mush room keys, Foot switch
13) Height at which local control is to be provided :
14) Signal for weigher discharge : Readiness coloured lamps
15) Counter weight : Required/Not required
If required, weight (kg) :
16) Air consumption :
Compressed air : m^3/h
Dedusting air : m^3/h
Power : kW
17) Aspiration details :
18) Quantity of off-take air (m^3) :
19) Dedusting requirements :
20) Agitator : Provided/Not provided
21) Overall dimensions of bagging machine :
22) Equipment weight, kg :
23) Distance of control panel from the machine (m) :
Minimum :
Maximum :

24) Electric motor :
25) Motor protection :
26) Steps of feed variation :
27) Residual material discharge : Manual
28) Burst bag discharge : Manual
29) Utility requirements :
  a) Compressed air :
    Quantity : Continuous requirement :
      Peak requirement :
    Pressure :
    Temperature :
    Humidity :
  b) Power :
30) Material of construction :
  a) Housing :
  b) Weigh hopper :
  c) Bag holder :
  d) Lever :
  e) Load cell :
  f) Antisway wire :
  g) All other parts coming in contact with the material being handled :
  h) Drive pulleys :
  j) Bagging spout :
  k) Surge hopper :
  m) Agitator :
  n) Feeder :

4 LOAD CELL SPECIFICATION DATA

1) Type of load cell :
2) Make of load cell :
3) Range of load cell :
4) Capacity :
5) Hysteresis :
6) Non-linearity :
7) Temperature effects :
8) Life :
9) Safe over load :

5 OPERATIONAL CONTROL REQUIREMENTS

1) Automatic check weighing of every weighment : Required/Not required
2) Automatic zero taring of weigh hopper for weighment : Required/Not required
3) Auto check : Required/Not required
  If required, specify its frequency
4) Automatic fall quantity correction : Required/Not required
5) Automatic calibration by push button : Required/Not required

6) Adjustable over/under tolerance band : Required/Not required
7) Automatic sampling programme : Required/Not required
8) Low level override : Required/Not required
9) Manual discharge : Required/Not required
10) Feed mode selector : Required/Not required
11) Power control switch : Required/Not required
12) Digital input switch : Required/Not required
13) Net weight and tare display : Required/Not required
14) Alarm facility for over and under tolerance weighment : Required/Not required
15) Indicator for 'Minus-Good-Plus' type digital : Required/Not required
16) Display advance : Required/Not required
17) Diagnostic indicator : Required/Not required
18) Acknowledgement of any fault condition : Required/Not required
19) Input data display : Required/Not required
20) Run/Hold switch : Required/Not required
21) Automatic dribble feed regulation : Required/Not required
22) Automatic switch for weight selection : Required/Not required
23) Details of data logger and its printer :

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BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones : 331 01 31, 331 13 75

Telegrams : Manaksanstha
(Common to all Offices)

Regional Offices:		Telephone
Central :	Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002	331 01 31 331 13 75
Eastern :	1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola CALCUTTA 700054	37 84 99, 37 85 61 37 86 26, 37 86 62
Northern :	SCO 445-446, Sector 35-C, CHANDIGARH 160036	53 38 43, 53 16 40 53 23 84
Southern :	C. I. T. Campus, IV Cross Road, MADRAS 600113	235 02 16, 235 04 42 235 15 19, 235 23 15
Western :	Manakalaya, E9 MIDC, Marol, Andheri (East) BOMBAY 400093	632 92 95, 632 78 58 632 78 91, 632 78 92

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